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(54) Title: CELL BANK FOR CONTINGENT AUTOLOGOUS LEUKOCYTE TRANSPLANTATION

(57) Abstract: A process for producing a leukocyte bank suitable for CAT therapy comprising the steps of providing a blood sample from a healthy donor individual; selectively separating leukocytes from the sample; collecting the separated leukocytes in a holding vessel; transferring two or more aliquots of the separated leukocytes to independent double containment storage vessels, wherein each of the storage vessels contains, or is in fluid communication with, a cryopreservation medium; mixing each aliquot with the cryopreservation medium within each storage vessel, cryogenically preserving each of the two or more aliquots within each of the storage vessels; retrievably depositing each of the two or more storage vessels containing the aliquots of preserved leukocytes into two or more independent storage systems to produce a leukocyte bank which exhibits deposit redundancy, wherein steps are conducted within a closed or functionally closed system and are applied iteratively to a series of blood samples from different healthy donor individuals. The process further comprises digitally storing information obtained from each donor individual in a digital information unit so as to permit matching of leukocyte deposit and donor for later autologous transplantation.

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